

STDK63B)

DATA EVALUATION RECORD

PAGE 1 OF

CASE GS0065 DICAMBA

PM 500 06/09/82

CHEM 029801

Dicamba (3,6-dichloro-o-anisic acid)

BRANCH EEB

DISC 40 TOPIC 05103047

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00034702 CONTENT CAT 01

Vilkas, A.G. (1978) The Acute Toxicity of Banvel Technical to the Grass Shrimp, "Palaeomonetes pugio"; UCES Proj. #11506-03-17. (Unpublished study received Feb 27, 1978 under 876-361 prepared by Union Carbide Corp., submitted by Velsicol Chemical Corp., Chicago, IL; CDL:232965-C)

SUBST. CLASS = S

DIRECT RVN TIME: 5 (MH) START-DATE END-DATE

REVIEWED BY: L.W.TOWART

TITLE: Fisheries Biologist

ORG: E2D/HED

LOC/TEL:

SIGNATURE: L.W.TOWART

DATE: 3/2/83

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:



965

ED_005172C_00001543-00001

DATA EVALUATION RECORD

1. CHEMICAL: Dicamba
2. FORMULATION: Technical (86.82% a.i.)
3. CITATION: Vilkas, A.G. (1978) The acute toxicity of Banvel Technical to the grass shrimp, Palaemonetes pugio: UCES Project # 11506-03-17. Unpublished report prepared by Union Carbide Corp. Prepared by Velsicol Chemical Corp. [MRID: 00034702]
4. REVIEWED BY: L.W. Touart
Fisheries Biologist
EEB/HED
5. DATE REVIEWED: 3/2/83
6. TEST TYPE: Estuarine Invertebrate Acute Toxicity Study
 - A. TEST SPECIES: Palaemonetes pugio
7. REPORTED RESULTS: The 96-hour LC50 >100 mg/l.
8. REVIEWERS CONCLUSIONS: The study is scientifically sound and would fulfill the requirements for an acceptable estuarine invertebrate toxicity study. With a 96-hr LC50 of >100 mg/l, technical dicamba is practically non-toxic to estuarine invertebrates.

Materials/Methods

Test Procedures

The test methods are generally consistent with current EPA Guidelines for conducting an Estuarine invertebrate toxicity study. Specifically: Dilution Water - reconstituted sea water (Zaroogian, 1969), 27.5%, pH=7.8; Test vessels- 5 gallon glass jars; shrimp size -rostrum-telson length = 1.59 cm, mean weight = 0.08 gms; levels - 10, 18, 32, 56 and 100 mg/l with controls; number tested- 10/level, 5/jar; temperature - 20.4°C (+0.6).

Statistical Analysis

N/A

Discussion/Results

Only one mortality occurred at the 100 mg/l level, with no mortalities at any other level. LC50 > 100 mg/l.

Reviewer's Evaluation

A. Test Procedure

Generally followed EPA recommended procedures

B. Statistical Analysis

N/A

C. Discussion/Results

The data support the conclusions drawn

D. Conclusions

1. Category: Core
2. Rationale: N/A
3. Repairability: N/A